

UR3e				UR5e				UR10e			
Specifications											
Payload	3 kg (6.6 lbs)			5 kg (11 lbs)			10 kg (22 lbs)				
Reach	500 mm (19.7 in)			850 mm (33.5 in)			1300 mm (51.2 in)				
Degrees of freedom							6 rotating joints				
Programming				12 inch touchscreen with polyscope graphical user interface							
Performance											
Power, Consumption, Maximum Average	300 W			570 W			615 W				
Power, Consumption, Typical with moderate operating settings (approximate)	100 W			200 W			350 W				
Safety							17 configurable safety functions				
Certifications							EN ISO 13849-1, PLd Category 3, and EN ISO 10218-1				
Force Sensing, Tool Flange	Force, x-y-z	Torque, x-y-z		Force, x-y-z	Torque, x-y-z		Force, x-y-z	Torque, x-y-z			
Range	30.0 N	10.0 Nm		50.0 N	10.0 Nm		100.0 N	10.0 Nm			
Precision	2.0 N	0.1 Nm		3.5 N	0.2 Nm		5.0 N	0.2 Nm			
Accuracy	3.5 N	0.1 Nm		4.0 N	0.3 Nm		5.5 N	0.5 Nm			
Movement											
Pose Repeatability per ISO 9283	± 0.03 mm			± 0.03 mm			± 0.05 mm				
Axis movement	Working range	Maximum speed		Working range	Maximum speed		Working range	Maximum speed			
Base	± 360°	± 180°/s		± 360°	± 180°/s		± 360°	± 120°/s			
Shoulder	± 360°	± 180°/s		± 360°	± 180°/s		± 360°	± 120°/s			
Elbow	± 360°	± 180°/s		± 360°	± 180°/s		± 360°	± 180°/s			
Wrist 1	± 360°	± 360°/s		± 360°	± 180°/s		± 360°	± 180°/s			
Wrist 2	± 360°	± 360°/s		± 360°	± 180°/s		± 360°	± 180°/s			
Wrist 3	Infinite	± 360°/s		± 360°	± 180°/s		± 360°	± 180°/s			
Typical TCP speed							1 m/s (39.4 in/s)				
Features											
IP classification							IP54				
ISO 14644-1 Class Cleanroom							5				
Noise	Less than 60 dB(A)			Less than 65 dB(A)			Less than 65 dB(A)				
Robot mounting							Any Orientation				
I/O ports											
Digital in							2				
Digital out							2				
Analog in							2				
Tool I/O Power Supply Voltage							12/24 V				
Tool I/O Power Supply	600 mA			1.5 A (Dual pin) 1 A (Single pin)			2 A (Dual pin) 1 A (Single pin)				
Physical											
Footprint	Ø 128 mm			Ø 149 mm			Ø 190 mm				
Materials							Aluminium, Plastic, Steel				
Tool (end-effector) connector type							M8 M8 8-pin				
Cable length robot arm							6 m (236 in)				
Weight including cable	11.2 kg (24.7 lbs)			20.6 kg (45.4 lbs)			33.5 kg (73.9 lbs)				
Operating Temperature Range							0-50°C				
Humidity							90%RH (non-condensing)				

UR16e	
16 kg (35.3 lbs)	
900 mm (35.4 in)	
585 W	
350 W	
Force, x-y-z	Torque, x-y-z
160.0 N	10.0 Nm
5.0 N	0.2 Nm
5.5 N	0.5 Nm
± 0,05 mm	
Working range	Maximum speed
± 360°	± 120°/s
± 360°	± 120°/s
± 360°	± 180°/s
± 360°	± 180°/s
± 360°	± 180°/s
± 360°	± 180°/s
Less than 65 dB(A)	
2 A (Dual pin) 1 A (Single pin)	
Ø 190 mm	
33,1 kg (73 lbs)	